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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/847,790	05/02/2001	Jae-wook Lee	8021-37 (SS-14987-US)	4910
75	590 09/21/2004		EXAMINER	INER
Frank Chau			PERILLA, JASON M	
F. CHAU & ASSOCIATES, LLP Suite 501			ART UNIT	PAPER NUMBER
1900 Hempstead Turnpike East Meadow, NY 11554			2634	
			DATE MAILED: 09/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary						
		09/847,790	LEE, JAE-WOOK			
		Examiner	Art Unit			
	The MAIL ING DATE of this communicat	Jason M Perilla	2634			
Period fe	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet	with the correspondence address			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA' nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day to period for reply is specified above, the maximum statutor ire to reply within the set or extended period for reply will, I reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may atton. ys, a reply within the statutory minimum of the content	a reply be timely filed hirty.(30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed o	n 02 May 2001.				
·	_	☐ This action is non-final.				
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
· _	Claim(s) <u>1-14</u> is/are pending in the appli	ication				
7/23	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🖂	☐ Claim(s) 1-6 is/are allowed. ☐ Claim(s) is/are rejected.					
·						
7)⊠	Claim(s) 7-14 is/are objected to.					
8)	Claim(s) are subject to restriction	and/or election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Ex	kaminer.				
10)🖂	The drawing(s) filed on <u>02 May 2001</u> is/a	are: a)⊠ accepted or b)□ obj	ected to by the Examiner.			
	Applicant may not request that any objection	n to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the	correction is required if the drawing	ng(s) is objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by	the Examiner. Note the attach	ed Office Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for t ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority doc	cuments have been received.				
	2. Certified copies of the priority doc3. Copies of the certified copies of the		• •			
	application from the International	•	m received in this valiend. Claye			
* (See the attached detailed Office action for	or a list of the certified copies no	ot received.			
	•					
Attachmer	• •	🗖 .				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-	v Summary (PTO-413) o(s)/Mail Date				
3) Infor	mation Disclosure Statement(s) (PTO-1449 or PTC er No(s)/Mail Date		f Informal Patent Application (PTO-152)			

Application/Control Number: 09/847,790 Page 2

Art Unit: 2634

DETAILED ACTION

1. Claims 1-14 are pending in the instant application.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

3. Claims 7-14 are objected to because of the following informalities:

Regarding claim 7, in line 3, the phrase "comprises the step" should be replaced with "comprising a step" for proper basis of the limitation.

Regarding claim 8, in line 3, the phrase "comprises the step" should be replaced with "comprising a step" for proper basis of the limitation.

Regarding claim 9, in line 4, the phase "signal and the lock window" should be replaced with "signal and the inverted lock window" according to the correct embodiment of the invention.

Regarding claim 10, in line 19, the phrase "the detected states" should be replaced with "the outputted states" for clarity of the claims language.

Appropriate correction is required.

Allowable Subject Matter

- 4. Claims 1-14 are indicated to contain allowable subject matter.
- 5. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or motivate one of ordinary skill in the art to combine teachings to arrive at the claimed invention. The claimed invention of the instant application is not exhibited in the prior art of record.

Conclusion

6. This application is in condition for allowance except for the following formal matters:

The claim objections above.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following prior art of record not relied upon is cited to show the state of the art with respect to phase detectors.

U.S. Pat. No. 5126602 to Lee et al.

U.S. Pat. No. 5923190 to Yamaguchi.

U.S. Pat. No. 4959617 to Martin.

U.S. Pat. No. 5834950 to Co et al.

U.S. Pat. No. 6114889 to Lee.

U.S. Pat. No. 5455540 to Williams.

U.S. Pat. No. 5640523 to Williams.

U.S. Pat. No. 6081572 to Filip.

Art Unit: 2634

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M Perilla whose telephone number is (571) 272-3055. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason M. Perilla September 10, 2004

jmp

CHIEH M. FAN PRIMARY EXAMINER

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